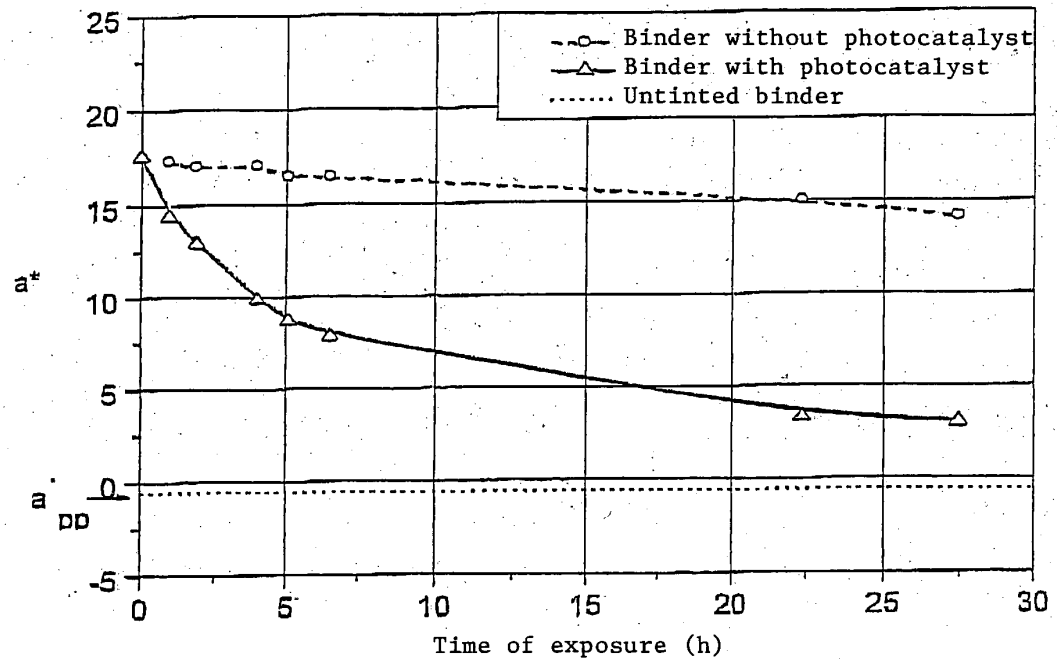
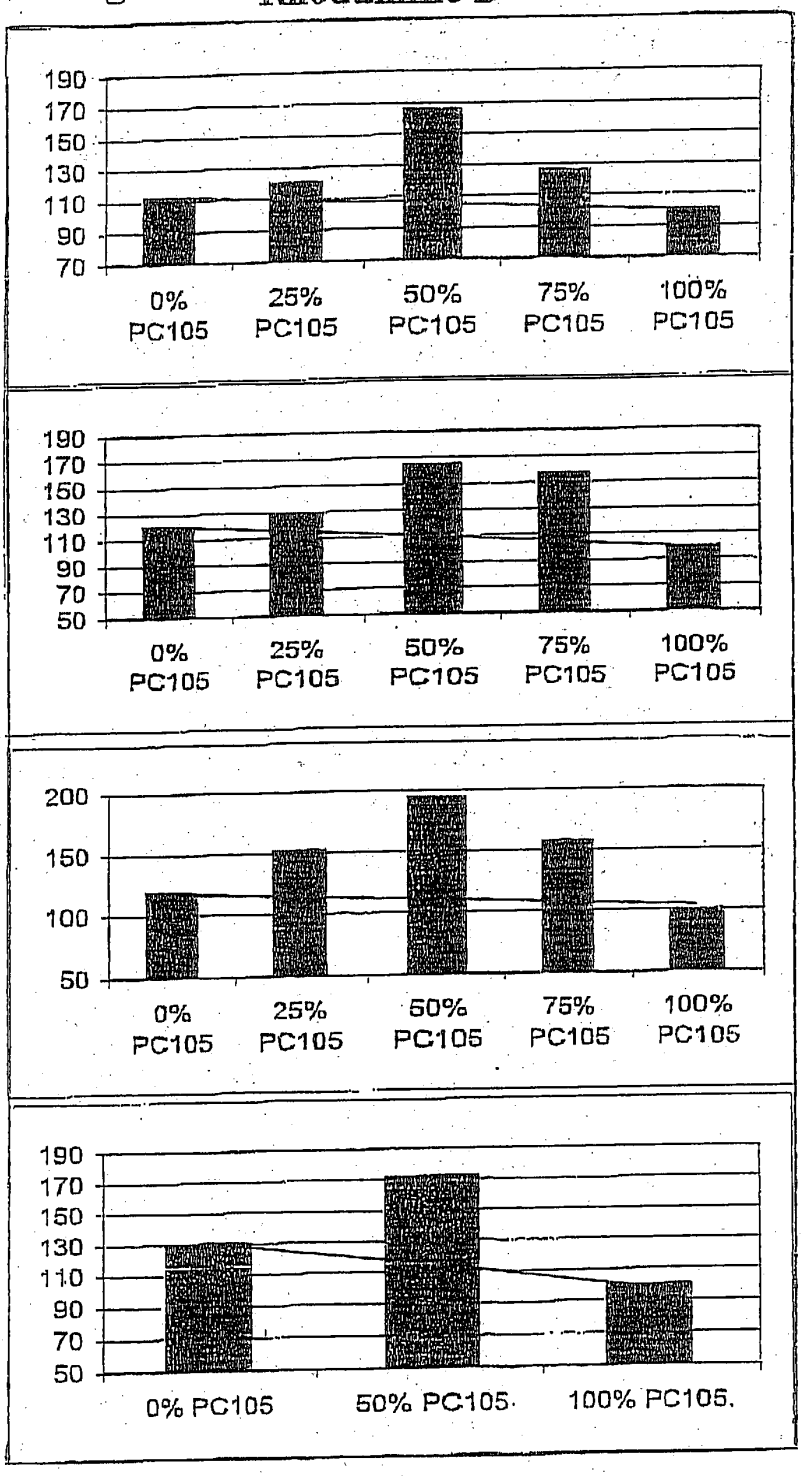

Binder without photocatalyst
Binder with photocatalyst
Untinted binder
a*
a* pp
25
20
15
10
5
0
-5
0
5
10
15
20
25
30
Time of exposure (h)

Fig. 1

Fig. 2 Rhodamine B



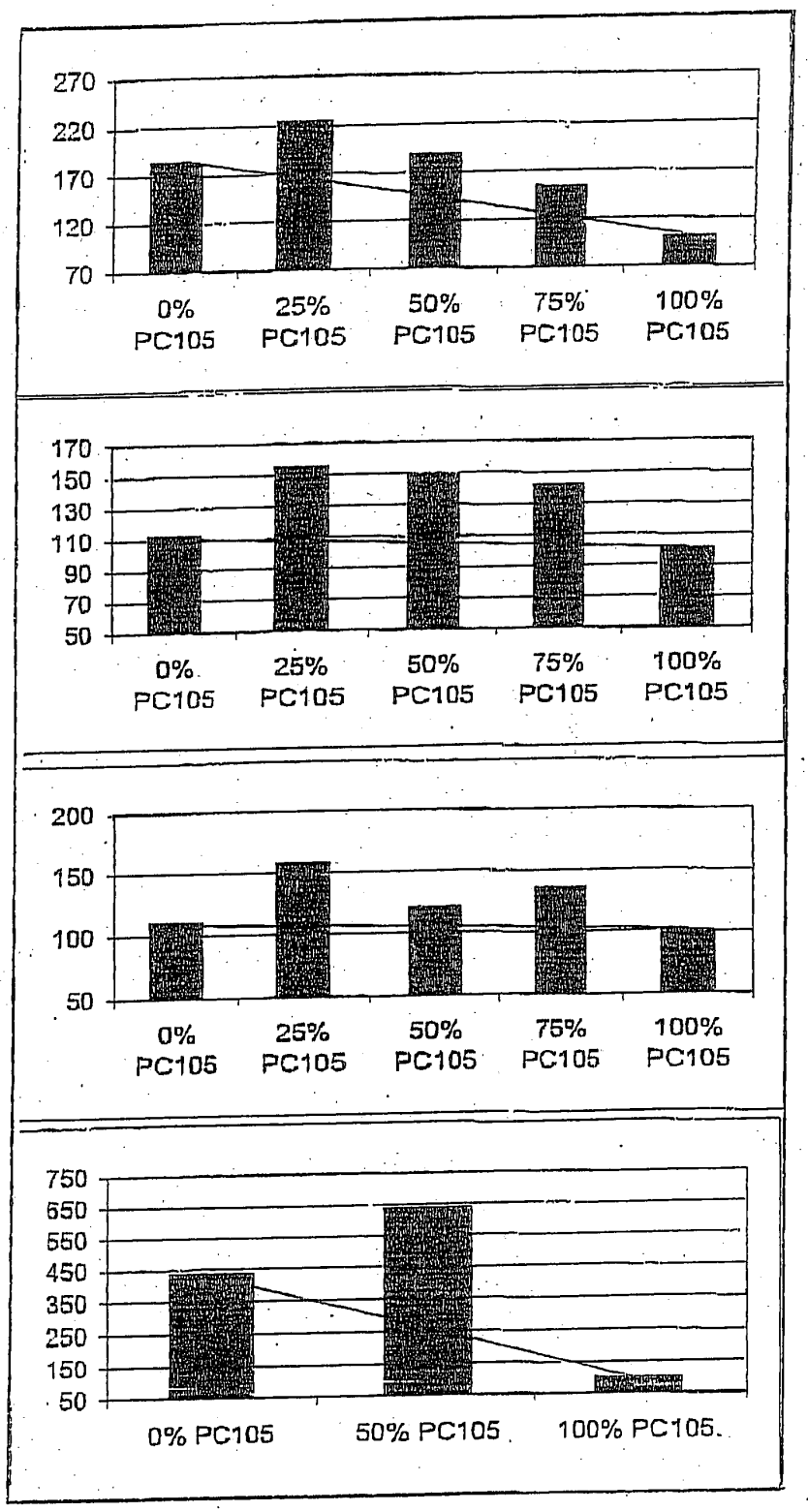

270
220
170
120
70
0% PC105
25% PC105
50% PC105
75% PC105
100% PC105
Example 1
170
150
130
110
90
70
50
0% PC105
25% PC105
50% PC105
75% PC105
100% PC105
Example 2
200
150
100
50
0% PC105
25% PC105
50% PC105
75% PC105
100% PC105
Example 3
750
650
550
450
350
250
150
50
0% PC105
50% PC105
100% PC105.
Example 4
Bromocresol green

Fig. 3

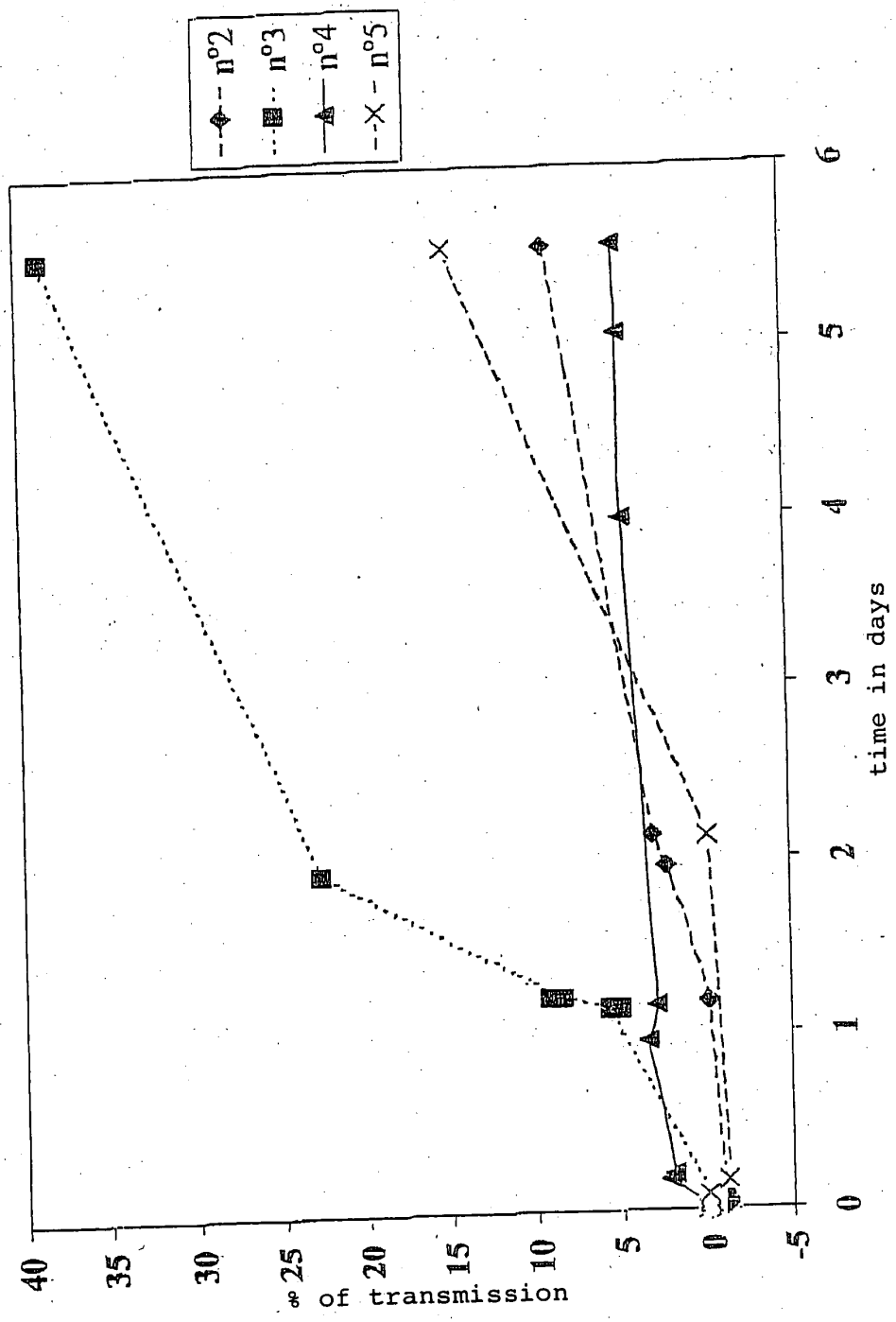

n°2
n°3
n°4
n°5
% of transmission
time in days
40
35
30
25
20
15
10
5
0
-5
0
1
2
3
4
5
6

Fig. 4

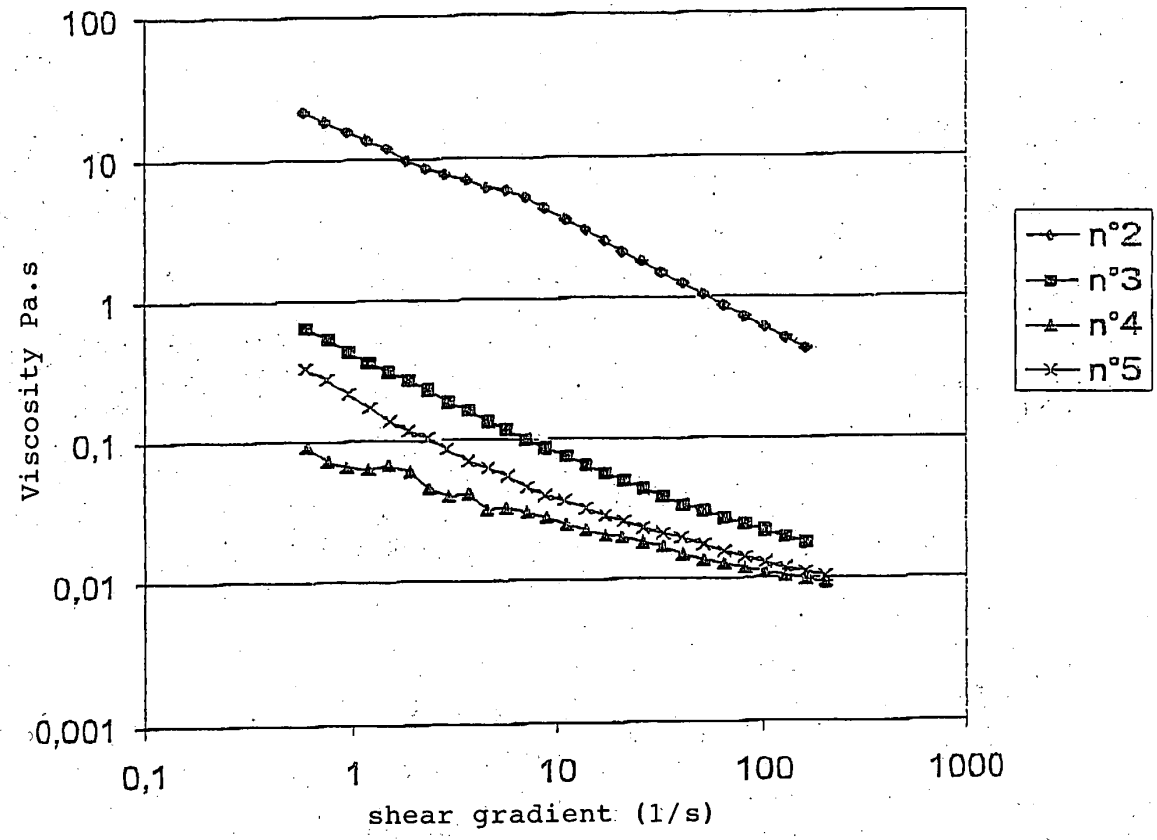

100
10
1
0,1
0,01
0,001
Viscosity Pa.s
0,1
1
10
100
1000
shear gradient (1/s)
n°2
n°3
n°4
n°5

Fig. 5